

Green Infrastructure – Enhancing Europe's Natural Capital

Group of Experts on Protected Areas and Ecological Networks, 5th meeting

18 September 2013, Strasbourg

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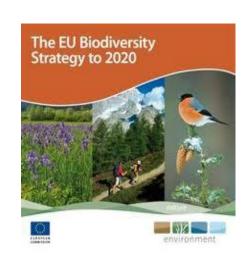


Why is the Commission acting?

Commitments in the EU 2020 Biodiversity Strategy and the Roadmap to resource efficiency to come forward with a strategy on Green Infrastructure (GI);

Council and EP mandate to develop GI strategy, "as contribution to further integrating biodiversity considerations into other EU policies";

Communication on "Green Infrastructure (GI) – Enhancing Europe's Natural Capital ", adopted on 6 May 2013;



EU Strategy on adaptation of climate change, adopted on 16 April 2013.

General Union Environment Action Programme to 2020 "Living well, within the limits of our planet" – the 7th EAP.

Policy signals towards decision and cross-boundary level. makers, planners and promoters to invest in GI projects at local, regional, national



GI in EU Biodiversity Strategy

Structure of the EU 2020 Biodiversity Strategy



2020 headline target

halt biodiversity loss – restore ecosystem services – global contribution

SIX TARGETS

Action 6b of EU Biodiversity Strategy:

The Commission will develop a Green Infrastructure Strategy by 2012 to promote the deployment of green infrastructure in the EU in urban and rural areas, ...

addressing main drivers of biodiversity loss and aiming to reduce key pressures

Enhance implementation of nature legislation

Restore ecosystems establish Green Infrastructure Sustainable agriculture and forestry Sustainable fisheries

Combat Alien Invasive Species Contribute to averting global biodiversity loss



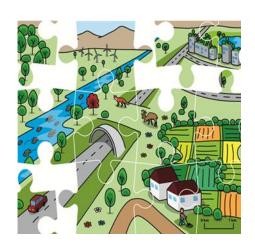


Green Infrastructure: What is it?

Green Infrastructure: a strategically planned network of natural and semi-natural areas with other environmental features designed and managed to deliver a wide range of ecosystem services. It incorporates green spaces (or blue if aquatic ecosystems are concerned) and other physical features in terrestrial (including coastal) and marine areas. On land, GI is present in rural and urban settings.

Contribution to Europe 2020 Strategy: promoting smart, sustainable and inclusive growth – supporting a shift towards a resource efficient, low-carbon, sustainable economy by investing in our natural capital.

Spatial structure delivering nature benefits to people





What is the GI Strategy about?

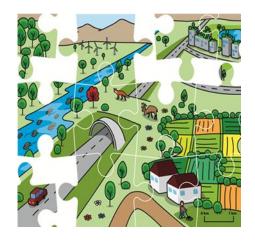
- Contribution of GI to a number of key policy areas: regional development, climate change, disaster prevention and resilience, agriculture, forestry, urban, water, and biodiversity protection and enhancement;
- Why EU action? Priorities at EU level:
 - GI is the backbone of Natura 2000 network.
 - Promote the deployment of GI in main policy areas and their funding mechanisms (integrate into implementation + guidance, awareness raising, best practices).
 - Improve knowledge base and promote innovation
 - Better access to finance (including innovative mechanisms).
- Progress report on implementation in 2017.



Green Infrastructure: Elements

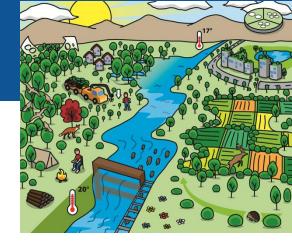
Local or town/city scale	Regional and national scale	EU level	Descriptor
Natural and semi-natural ecosystems, such as pastures, woodland, forest (no intensive plantations), ponds, bogs, rivers and floodplains, coastal wetlands, lagoons, beaches, marine habitats	Extensive agricultural and forest landscapes, large marsh and bog areas, rivers and floodplains, shorelines/coastal zones	Freshwater systems, major river basins, mountain ranges, regional sea basins	Core areas – outside protected areas
Local nature reserves, water protection areas, landscape protection areas, Natura 2000 sites	Regional and National Parks and wilderness zones (includes Natura 2000 sites)	Ecological Networks with cross-border areas, incl. Natura 2000 network	Core areas/protected areas
Restored areas which were before fragmented or degraded natural areas, brownfield land or disused quarries; transitional ecosystems due to land abandonment or regeneration processes	Restored ecosystem types	Restored Landscape systems covering a substantial part of agricultural/forestry areas and industrialised sites, including cross-border areas	Restoration zones
High nature value farmland and multi-use forests (such as watershed forests); protection forests (against avalanches, mudslides, stonefall, forest fires), natural buffers such as protection shorelines with barrier beaches and salt marshes	Extensive agricultural landscapes, sustainable forest management on regional and national level, functional riparian systems	Transboundary landscape features on river basin or mountain range level, sustainable coastal and marine management zones related to the respective sea basin	Sustainable use zones
Street trees and avenues, city forests/woodlands, high-quality green public spaces and business parks/premises; green roofs and vertical gardens; allotments and orchards; storm ponds and sustainable urban drainage systems; city reserves incl. Natura 2000	Greenways, green belts, metropolitan park systems	Metropolitan areas with substantial share of high quality green areas in Europe, including coherent approaches in cross-border urban zones.	Green urban and peri-urban areas
Hedgerows, stone walls, small woodlands, ponds, wildlife strips, riparian river vegetation, transitional ecosystems between cropland, grassland and forests	Multi-functional, sustainably managed agricultural landscapes, riparian systems	Supra-regional corridors, substantial share of structure-rich agricultural, forestry or natural landscapes	Natural connectivity features
Eco-ducts, green bridges; animal tunnels (e.g. for amphibians), fish passes, road verges, ecological powerline corridor management	De-fragmentated landscapes, improved areas along transport and energy networks, migration corridors, river continuum	European-wide or transnational defragmentation actions	Artificial connectivity features

Spatial structure delivering nature benefits to people





Multiple benefits



- Usually, high return on green infrastructure investments:
 - Floodplain restoration project along the river Elbe (DE) benefits of shifting dikes, investing in floodplain-adapted agricultural management and constructing fish ladders outweighed costs by a factor of up to four. Recreation, flood protection and carbon benefits, which were not monetised, would increase the value of these calculated benefits even further.
- Sustainable, no-regret investments. Concept immediately applicable;
- Delivering high-level skilled jobs for planning, innovation, management and monitoring; but also jobs for less skilled people in creation and management. Enhances feeling of responsibility of citizens for the area they live in.
- Innovation/SME potential of GI with links to standards, certification, labelling in support of GI investments.





GI in urban development

- Importance of promoting GI solutions in Urban Environment
 Making space for ecosystems; strengthening the functionality
 of ecosystems for delivering goods and services, such as
 provision of clean water and air, water retention, attractive
 recreational areas;
- Mitigating and adapting to climate change effects, such as lower temperatures in cities in summer, retaining rain water;
- Health-related and social benefits;
- Cost-effective solutions (e.g. air cooling, flood control);
- Connecting urban, peri-urban, and rural areas;
- Link with integrated sustainable urban development in 2014-2020 Cohesion Policy;
- Build on existing initiatives e.g. on sustainable cities, European Green Capital ...





GI in rural environment

- Importance of promoting GI solutions into agricultural and forestry management (multiple benefits instead of singlepurpose land management);
- Making space for ecosystems; strengthening the functionality of ecosystems for delivering goods and services, such as carbon sequestration, water retention, functional landscapes, habitats for wildlife;
- Mitigating and adapting to climate change effects;
- Health-related and social benefits;
- Cost-effective solutions (e.g. disaster protection, flood control);
- Connecting protected and non-protected areas;
- Links with new ERDF and CAP in 2014-2020 policies (such as integration of GI into new rural development funds).



©: known to EC



GI guidance

"The Commission will develop technical guidance setting out how Green Infrastructure will be integrated into the implementation of the main policies and their associated funding mechanisms from 2014 to 2020."



Connecting Smart and Sustainable Growth through Smart Specialisation

A practical guide for ERDF managing authorities



November 2012



- Already available:
 - Better environmental options for flood risk management
 - Guidance on connectivity
 - Natural water retention measures (link to adaptation)
 - Integration of biodiversity and climate change into SEA and EIA
 - Connecting Smart and Sustainable Growth through Smart Specialisation
 - Guide to multi-benefit Cohesion policy investments in Nature and Green Infrastructure

Commission **GI** promotion and best practice sharing

Promote GI approaches in communication to citizens Developing dedicated IT platform

- Already available:
 - Information material on website
 - Facebook application, video, illustrations
 - GI is de facto part of the Green Capital award
 - BISE with GI platform currently being updated
- **Upcoming:**
 - **Brochure for wider public**
 - Better integration into on-going communication measures and IT facilities, also from other DGs
 - **Working Group on Implementation of GI**



Commission published a new Strategy to promote the use of

constructions, for instance in

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evelopment policy which makes

and used as if their supply is continues to be decraded

projects within existing legal, policy and financial instruments

Natura 2000 Newsletter 07/13 http://ec.europa.eu/environment/ nature/info/pubs/natura2000nl e n.htm



The Guide to Multi-Benefit Cohesion Policy Investments in Nature and Green Infrastructure



Structural Funds (the European Regional Development Fund and European Social Fund)

Cohesion Fund

CAP Funding

HD Art. 10 programs, High Nature Value Farmland after reform: ecological focus areas, landscape structures

LIFE+

Brochure with 65 project examples from 17 MS

+ Non-EU funding (governments, EIB, private banks, developer and civil society)





adaptation for urban



Role of Member States and civil society

Authorities, businesses and civil society need to take actions on all relevant levels – local, regional, national and cross-border – to deploy Green Infrastructure in urban, peri-urban and rural areas.

MS and sector-based policies should integrate Green Infrastructure solutions into their programming and financing work (including partnership agreements and operational programs), and invest in capacity building for guaranteeing an integrated approach.

Added European value ensured through cross-border, interregional and transnational cooperation through regional macro-strategies and through a better use of territorial cooperation and of exchanges of information, experience and good practices.

Step up MS, regional and local policy tools and funding instruments for GI complementing the EU action framework.

Strategically integrate GI into spatial planning processes.

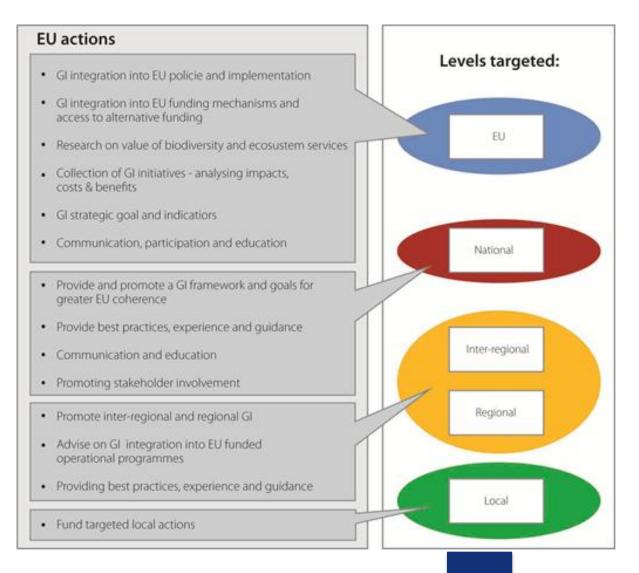


Institutional follow-up

Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions

- Council:
 - LT PRES plans to discuss GI as lunch item at October ENV council
- EP
 - Oral question with resolution in Plenary (September October)
- CoR:
 - Adoption of Opinion in October. Joint conference with EESC in November.
- EESC:
 - Adoption of Opinion in October. Joint conference with CoR in November.





Actions on all levels

Figure and text adapted from the Recommendations of the GI Working Group on http://ec.europa.eu/environmen t/nature/ecosystems/index_en.h tm



More information:



http://ec.europa.eu/environment/nature/ecosystems/index_en.htm https://circabc.europa.eu/faces/jsp/extension/wai/navigation/container.jsp ENV-BIODIVERSITY@ec.europa.eu